

=> b reg  
 FILE 'REGISTRY' ENTERED AT 17:02:31 ON 22 JAN 2008  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
 COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3  
 DICTIONARY FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

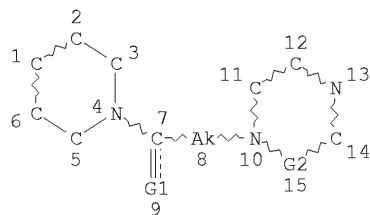
Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
 predicted properties as well as tags indicating availability of  
 experimental property data in the original document. For information  
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d que sta l8

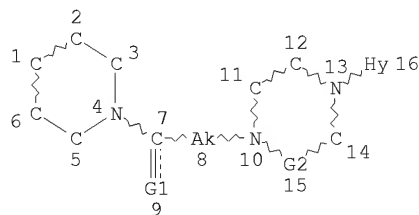
L1 STR



VAR G1=O/S  
 REP G2=(1-2) C  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE  
 L3 2510 SEA FILE=REGISTRY SSS FUL L1  
 L4 STR



VAR G1=O/S  
 REP G2=(1-2) C  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E4 C E2 N AT 16

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

L6 161 SEA FILE=REGISTRY SUB=L3 SSS FUL L4  
L7 143 SEA FILE=REGISTRY ABB=ON PLU=ON L6 AND 46.150.18/RID  
L8 140 SEA FILE=REGISTRY ABB=ON PLU=ON L7 AND NC2NC2/ES

=> b hcap

FILE 'HCAPLUS' ENTERED AT 17:02:42 ON 22 JAN 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 22 Jan 2008 VOL 148 ISS 4

FILE LAST UPDATED: 21 Jan 2008 (20080121/ED)

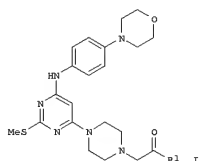
New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs fhitrn hitrn l19 tot

L19 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2008 ACS ON STN  
 AN 2006:130408 HCAPLUS  
 DN 146:100725  
 TI Preparation of anilino pyrimidine derivatives for treatment of Hepatitis C virus  
 IN Kim, Jong Woo; Lee, Sang Wook; Lee, Geun Hyung; Han, Jae Jin; Park, Sang Jin; Park, Eul Yong; Shin, Joong Chul  
 PA B & C Biopharm. Co., Ltd., S. Korea  
 SO PCT Int. Appl., 49pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CMI 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2006137706	A1	20061228	2006MO-KR02416	20060622
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CE, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, ME, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SH, SI, SM, SJ, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, ML, PL, PT, RO, SE, SI, SK, TR, BF, BU, CF, CG, CI, CM, GA, GN, GD, GM, GU, HK, HN, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, LA, LC, LK, LR, LS, MA, MD, MG, MK, MN, MW, MX, ME, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SH, SI, SM, SJ, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
HR-----700676	B1	20070328	2005KN-0054885	20050624
PRAI 2005KR-0054885	A	20050624		
OS MARPAT 146:100725				
GI				



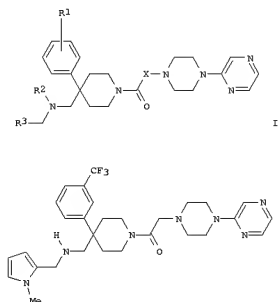
AB Title compds. represented by the formula I [wherein R1 = -(R2)-(CH2)n-R3, 4-R4-(Het)-1-yl or (un)substituted heteroaryl; R2 = H, benzyl or alkyl; R3 = H, halo, OH, etc.; R4 = H, carbamoyl, alkyl, etc.; n = 0-4; Het = piperazine or piperidine; and pharmaceutically acceptable salts thereof] were prepared. For example, I (R1 = MeNH) was provided in a multi-step synthesis starting from the reaction of 4,6-dichloro-2-(methylthio)pyrimidine with 4-(morpholino)aniline. The prepared title compds. showed inhibitory effect on activity of HCV RNA polymerase in vitro and low toxicity, thus can be advantageously used as a therapeutic or prophylactic agent of hepatitis C.

II 917594-57-1P, 2-Methylthio-6-[[4-(morpholino)anilino]-4-[[4-[[piperidino]carbonyl]methyl]piperazin-1-yl]pyrimidine  
 RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of anilino pyrimidine derivs. for treatment of Hepatitis C virus)

RN 917594-57-1 HCAPLUS

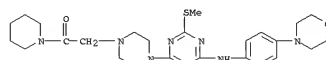
L19 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS ON STN  
 AN 2005:470969 HCAPLUS  
 DN 143:26636  
 TI Preparation of 4-[(Arylmethyl)aminomethyl]piperidines as inhibitors of NGF binding (nerve growth factor) to p75NTR (p75 neurotrophic) receptor for treating p75NTR related diseases  
 IN Bosch, Michael; Wagnon, Jean  
 PA Sanofi-Synthelabo, Fr.  
 SO Fr. Demande, 31 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 FAN.CMI 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI FR-----2862968	A1	20050603	2003FR-0014172	20031201
FR-----2862968	B1	20060804		
WO2005054229	A1	20050616	2004MO-FR03066	20041130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CE, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SJ, SY, TJ, TM, TR, TP, TT, TZ, UA, UG, US, VE, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, ME, NA, SD, SL, SE, SZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GP, GW, HT, KE, MG, NE, SN, TD, TG				
EP-----1694668	A1	20060830	2004EP-0805590	20041130
R: AT, BE, BG, CH, DE, DK, EE, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
JP2007512384	I	20070517	2006JP-0541974	20041130
US2007037819	A1	20070215	2006US-0420505	20060526
PRAI 2003FR-0014172	A	20031201		
2004MO-FR03066	W	20041130		
OS MARPAT 143:26636				
GI				



AB Title compds. I [wherein X = (CH2)n; n = 1-2; R1 = CF3; R2 = H, alkyl; R3 = (un)substituted pyrrolyl, 1,2,3-thiadiazolyl, pyrazinyl, etc.; and their

L19 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)  
 CN Echanone, 2-[[4-[2-(methylthio)-6-[[4-[[4-(morpholino)anilino]-4-[[4-[[piperidino]carbonyl]methyl]piperazin-1-yl]pyrimidine]]-1-piperazinyl]-1-(1-piperidinyl)]-pyrimidinyl]-1-piperazinyl]-1-(1-piperidinyl)]- (CA INDEX NAME)



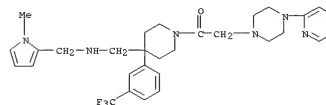
II 917594-57-1P, 2-Methylthio-6-[[4-(morpholino)anilino]-4-[[4-[[piperidino]carbonyl]methyl]piperazin-1-yl]pyrimidine  
 917594-58-2P, 2-Methylthio-6-[[4-(morpholino)anilino]-4-[[4-[[4-(methylpiperidino)carbonyl]methyl]piperazin-1-yl]pyrimidine  
 917594-59-3P, 2-Methylthio-6-[[4-(morpholino)anilino]-4-[[4-[[4-(hydroxymethylpiperidino)carbonyl]methyl]piperazin-1-yl]pyrimidine  
 917594-60-6P, 2-Methylthio-6-[[4-(morpholino)anilino]-4-[[4-[[4-(carbamoylpiperidino)carbonyl]methyl]piperazin-1-yl]pyrimidine  
 917594-61-7P, 2-Methylthio-6-[[4-(morpholino)anilino]-4-[[4-[[4-(3-pyrrolidinylpiperidino)carbonyl]methyl]piperazin-1-yl]pyrimidine  
 917594-62-8P, 2-Methylthio-6-[[4-(morpholino)anilino]-4-[[4-[[4-(piperidino)pyrrolidinyl]methyl]piperazin-1-yl]pyrimidine  
 917594-63-9P, 2-Methylthio-6-[[4-(morpholino)anilino]-4-[[4-[[4-(morpholino)piperidino]carbonyl]methyl]piperazin-1-yl]pyrimidine  
 RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of anilino pyrimidine derivs. for treatment of Hepatitis C virus)

RE.CMI 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)  
 salts, hydrates and solvates) were prepd. as inhibitors of the binding of 125I NGF to p75NTR (p75 neurotrophic) receptor and of the apoptosis induced by NGF (nerve growth factor) for treating p75NTR related diseases (no data). For example, II was prepd. by reacting 1-[[4-(aminomethyl)-4-[[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone (prepn. given) and 1-methyl-2-pyrrolidone in THF in the presence of NaBH(OAc)3/ACOH. I inhibited the binding of 125I NGF to p75NTR receptor with IC50 in the range of 10-11 M to 10-6 M at the biochem. level. I inhibited the pro-apoptotic effect induced by NGF, via growing cells expressing preferentially p75NTR, with IC50 in the range of 10-11 M to 10-6 M at the cellular level.

II 852936-29-9P, [(1-Methyl-1H-pyrrol-2-yl)methyl] [(1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl)methyl]amine  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (drug candidate; preparation of 4-[(arylmethyl)aminomethyl]piperidines as NGF binding inhibitors to p75NTR receptor and of the apoptosis induced by NGF)

RN 852936-29-9 HCAPLUS  
 CN 4-Piperidinemethanamine, N-[[1-(1-methyl-1H-pyrrol-2-yl)methyl]-1-[[4-(pyrazinyl)-1-piperazinyl]acetyl]-4-[[3-(trifluoromethyl)phenyl]-1-piperidin-4-yl]methyl]amine (CA INDEX NAME)



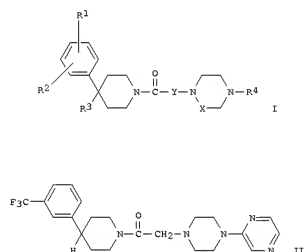
II 852936-29-9P, [(1-Methyl-1H-pyrrol-2-yl)methyl] [(1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl]amine 852936-31-3P 852936-32-4P, N-Methyl-1-[[1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]-N-[[1,3-thiazol-2-yl]methyl]methanamine trihydrochloride 852936-33-5P, (2-Furylmethyl) [(1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl]amine 852936-34-6P, (3-Furylmethyl) [(1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl]amine 852936-35-7P, [(5-Methyl-2-furyl)methyl] [(1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl]amine 852936-36-8P, (4,5-Dimethyl-2-furyl)methyl [(1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl]amine 852936-37-9P, (5-Chloro-2-furyl)methyl [(1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl]amine 852936-38-0P, (1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl] [(2-thienyl)methyl]amine 852936-39-1P, [(1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl] [(3-thienyl)methyl]amine 852936-40-4P, 1-Phenyl-N-[[1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl]methanamine 852936-41-5P, [(1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl] [(pyridin-2-yl)methyl]amine 852936-42-6P, N-Methyl-1-[[1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]-N-[[pyridin-2-yl]methyl]methanamine 852936-43-7P, N-Methyl-1-[[1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl]methanamine tetrahydrochloride 852936-44-8P, N-Methyl-1-[[1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl] [(pyridin-4-yl)methyl]methanamine tetrahydrochloride 852936-45-9P, N-Methyl-1-[[1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-(trifluoromethyl)phenyl]piperidin-4-yl]methyl]methanamine tetrahydrochloride 852936-46-0P, [(6-Methylpyridin-2-yl)methyl] [(1-[[4-(pyrazin-2-yl)piperazin-1-yl]acetyl]-4-[[3-

L19 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)  
 (trifluoromethyl)phenyl]piperidin-4-yl)methyl]amine 852936-47-1P  
 , [(3-Methyl-2-thienyl)methyl]([1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-  
 4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methyl]amine trihydrochloride  
 852936-48-2P 852936-49-3P, N-Methyl-1-[1-[(4-(pyrazin-2-  
 yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]-N-  
 [(pyrimidin-5-yl)methyl]methanamine 852936-50-6P,  
 (1H-imidazol-2-ylmethyl)(methyl)[1-[(4-(pyrazin-2-yl)piperazin-1-  
 yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methyl]amine  
 852936-51-7P, (1H-imidazol-5-ylmethyl)(methyl)[1-[(4-(pyrazin-2-  
 yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-  
 yl)methyl]amine tetrahydrochloride 852936-52-6P,  
 N-Methyl-1-(4-methyl-1H-imidazol-5-yl)-N-[1-[(4-(pyrazin-2-yl)piperazin-1-  
 yl)acetyl]-4-[3-(trifluoromethyl)phenyl]pyridin-4-yl)methyl]methanamine  
 RL PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (drug candidate; prepn. of 4-[(arylmethyl)aminomethyl]piperidines as  
 NGF binding inhibitors to p75NTR receptor and of the apoptosis induced  
 by NGF)  
 IT 634461-23-7P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-  
 piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634464-08-7P, 1-[4-(Methylamino)methyl]-4-[3-  
 (trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-  
 1-ethanone 634469-37-1P, tert-Butyl [1-[2-[4-(2-pyrazinyl)-1-  
 piperazinyl]ethanonyl]-4-[3-(trifluoromethyl)phenyl]-4-  
 piperidinyl]methyl]carbamate 852936-54-0P, tert-Butyl  
 [(1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-[3-  
 (trifluoromethyl)phenyl]-4-piperidinyl]methyl]carbamate  
 RL RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (intermediate; preparation of 4-[(arylmethyl)aminomethyl]piperidines as NGF  
 binding inhibitors to p75NTR receptor and of the apoptosis induced  
 by NGF)  
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

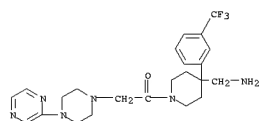
L19 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)  
 AN 2003:991506 HCAPLUS  
 DN 140:27846  
 TI Preparation of piperazinylacetyl piperidines as inhibitors of NGF binding  
 (nervous growth factor) to p75NTR (p75 neurotrophic) receptor for treating  
 p75NTR related diseases  
 IN Bono, Francoise; Bosch, Michael; Dos, Santos Victor; Herbert, Jean Marc;  
 Hissato, Dino; Tonnerre, Bernard; Wagnon, Jean  
 PA Sanoel-Synthelabo, Fr.; Dos Santos, Victor  
 SO PCT Int. Appl., 81 pp.  
 CODEN: PIIXXD2  
 DT Patent  
 LA French  
 FAN.CNT 2  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2003104225	A1	20031218	2003WO-FR01685	20030605
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BE, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DS, EC, EE, ES, FI, GB, GD, GE, GR, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, LU, MA, MD, MG, MK, MN, MW, MX, ME, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, ME, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA----	2487840	A1	20031218	2003CA-2487840
AU2003255644				20031222
EP----	1513835	A1	20030316	2003EP-075109
EP----	1513835	B1	20060816	20030605
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CZ, PL, BG, CS, EE, HU, SK			
BR2003011828	A	20050329	2003BR-001828	20030605
CN----	1675203	A	20050928	2003CN-0818808
JP2005534661	T	20051117	2004JP-0511295	20030605
AT----	325122	T	20060615	2003AT-075109
NE----	537044	A	20060831	2003NE-0537044
AT----	336491	T	20060915	2003AT-075109
PT----	1513836	T	20060929	2003PT-075109
ES----	2264001	T3	20061216	2003ES-375109
ES----	2271637	T3	20070416	2003ES-375109
US2005176722	A1	20050531	2004US-0516704	20041202
ZA2004009823	A	20060726	2004ZA-0009823	20041203
NO2004005331	A	20050307	2004NO-0005331	20041206
TN2004KH01862	A	20060407	2004TN-KH01862	20041206
WO20049412341	A	20050930	2004WO-9412341	20041207
PRAI 2002FR-0007001	A	20020607	2002FR-0007001	20020607
OS 2003WO-FR01685	W	20030605		
GI MARPAT 140:27846				

L19 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



AB Title compds. I [wherein: Y = (CH2)n; n = 1 or 2; X = (CH2)p; p = 1 or 2; R1 = halo, CF3, alkyl, alkoxy, trifluoromethoxy; R2 = H, halo; R3 = H, ORS, CH2ORS, NH2 and derivs., NHCORe and derivs., NHCONH2 and derivs., CH2NH7R6, CH2NHCONH2 and derivs., alkoxy carbonyl, CONH2 and derivs.; or R3 forms a double bond between the carbon atom where it is bound to and the neighboring carbon atom of the piperidine cycle; R4 = (un)substituted pyridinyl, pyrazinyl, pyrimidinyl, pyridazinyl, 3(2H)-pyridazin-5-yl, 3(2H)-pyridazin-4-yl; R5 = H, alkyl, alkyl carbonyl; R6 = alkyl, (CH2)mNH2 and derivs.; m = 1, 2, or 3; R7, R8 = independently H, alkyl; R8 = (CH2)qNH, (CH2)qNH2; q = 2 or 3; or R7/R8 = aziridine, azetidine, pyrrolidine, piperidine, morpholine; and their salts, hydrates and solvates] were prepared as inhibitors of the binding of 125I NGF to p75NTR (p75 neurotrophic) receptor and of the apoptosis induced by NGF (nervous growth factor) for treating p75NTR related diseases (no data). For example, II was prepared by reacting 1-(2-pyrazinyl)piperazine (preparation given) with 2-chloro-1-[4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-1-ethanone (preparation given) in the presence of K2CO3/MeCN, followed by acylation with HCl. I inhibited the binding of 125I NGF to p75NTR receptor with IC50 in the range of 10-11 M to 10-6 M at the biochem. level. I inhibited the pro-apoptotic effect induced by NGF, via growing cells expressing preferentially p75NTR, with IC50 in the range of 10-11 M to 10-6 M at the cellular level.  
 IT 634461-23-7P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 RL PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (NGF binding inhibitor; preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 RN 634461-23-7 HCAPLUS  
 CN 4-Piperidinenethanamine, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (SCI) (CA INDEX NAME)



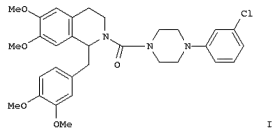
IT 634461-23-7P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-

L19 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)  
 piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634461-63-5P 634461-69-3P 634462-72-9P  
 634462-91-2P 634463-08-4P 634463-19-7P  
 634463-39-1P 634463-49-3P 634464-60-1P  
 634464-66-7P 634525-03-4P  
 RL PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (NGF binding inhibitor; prepn. of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634461-08-6P, 2-[4-(2-Pyrazinyl)-1-piperazinyl]-1-[4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-1-ethanone monohydrochloride  
 634461-18-0P, 1-[4-Hydroxy-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-3-[4-(2-pyrazinyl)-1-piperazinyl]-1-propanone oxalate  
 634461-29-3P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrimidinyl)-1-piperazinyl]-1-ethanone  
 Trihydrochloride 634461-52-2P 634461-57-7P  
 634461-73-7P 634461-76-0P 634461-81-7P  
 634461-87-3P 634463-93-1P 634463-98-7P  
 634462-26-3P 634462-32-1P 634462-38-7P  
 634462-49-0P, 2-[4-(4-Pyrimidinyl)-1-piperazinyl]-1-[4-[3-(trifluoromethyl)phenyl]-3,6-dihydro-1(2H)-pyridinyl]-1-ethanone dioxalate  
 634462-55-8P 634462-61-6P 634462-68-3P  
 634462-79-6P, 1-[4-(Hydroxymethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634462-83-2P, 1-[4-(Dimethylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634462-87-6P 634462-98-9P,  
 1-[4-(4-Chlorophenyl)-3,6-dihydro-1(2H)-pyridinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634463-03-9P, 1-[4-(Aminomethyl)-4-(4-chlorophenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634463-13-3P 634463-23-3P  
 634463-44-8P 634463-55-1P 634463-77-7P  
 634463-93-7P 634463-97-1P 634464-03-2P  
 634464-08-7P, 1-[4-(Methylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634464-15-6P, 1-[4-((Isopropylamino)methyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634464-20-3P, 1-[4-(N-Methylisopropylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone Trihydrochloride 634464-24-7P  
 634464-29-2P 634464-34-9P 634464-39-4P  
 634464-44-1P 634464-48-5P, 1-[4-(Aminomethyl)-4-(3-chlorophenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634464-72-5P, 1-[4-(Aminomethyl)-4-(3-methoxyphenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634470-24-9P 634470-42-1P 634525-08-9P  
 RL PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (NGF binding inhibitor; preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634462-48-9P 634464-73-4P 634469-50-4P,  
 1-[2-[4-(2-Pyrazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinecarbonitrile 634469-57-1P, tert-Butyl [1-[2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethoxyethyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methyl]carbamate 634469-63-9P, 1-[2-[4-(2-Pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinecarbonitrile 634469-68-4P  
 634469-69-5P 634469-74-2P, 4-(4-Chlorophenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarbonitrile 634469-86-6P, tert-Butylmethyl [1-[2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethoxyethyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methyl]carbamate 634469-90-2P, 4-(3-Chlorophenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarbonitrile 634469-97-9P, 4-(3-Methoxyphenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarbonitrile  
 RL RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)

L19 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)  
 IT 634469-00-0P, 1-[4-(Aminomethyl)-4-phenyl-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (intermediate; preparation of piperazinylacylpiperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634469-01-1P, 1-[4-(Aminomethyl)-4-phenyl-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone Trifluoroacetate  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of piperazinylacylpiperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

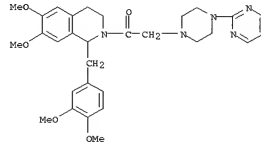
=> d bib abs hitstr 117 tot

LI7	ANSWER 1 OF 2 HCAPULS COPYRIGHT 2008 ACS ON STN
AN	2002:723424 HCAPULS
DN	138:137143
II	Synthesis of N-substituted piperaziny carbamoyl and acetyl derivatives of
AI	tetrahydropyrazine: Potent antispasmodic agents
CU	Taskiran; Ghosh, Narendra Nath; Barua, Anta; Chandra, Ramesh
CS	Dr. B. R. Ambedkar Centre for Biomedical Research, University of Delhi,
SD	Delhi, 110007, India
SC	Chemical & Pharmaceutical Bulletin (2002), 50(9), 1223-1228
CO	CODEN: CPBTAJ; ISSN: 0009-2363
PS	Pharmaceutical Society of Japan
DT	Journal
LA	English
GI	CASREACT 138:137143



AB	The synthesis and structure-activity-relationship (SAR) for a series of N-substituted piperazinyl carbamoyl and piperazinyl acetyl derivs. of tetrahydropapaverine have been carried out. The general synthetic methods for carbamoyl and acetyl tetrahydropapaverine involve N-substituted piperazines and carbamoyl imidazole tetrahydropapaverine as starting materials. Another route for synthesizing these compds., involving the reaction of carbamoyl imidazole with papaverine has also been explored. Acylation of tetrahydropapaverine followed by substitution with various piperazinyl moieties afforded the acetyl tetrahydropapaverine derivs. Various substituted piperazines have been used to monitor the effect of electron releasing and electron withdrawing substituents upon the antispasmodic activity of the mols. Effect of varying electron densities on the antispasmodic activity, by altering the position of these groups on the piperazine ring, has also been investigated. The results of the in vitro antispasmodic activity studies on a freshly removed guinea pig ileum using a force displacement transducer amplifier connected to a plotter graph. The results analogized the synthetic compounds with the promising compound 1, a potent muscle relaxant as compared to papaverine, has been obtained.
IF	49264-25-2P RUBICIN (Pharmacological activity); SPN (Synthetic preparation); BTOL (Biological study); PREP (Preparation) (Preparation of N-substituted piperazinyl carbamoyl and acetyl derivs. of tetrahydropapaverine as antispasmodic agents)
RM	49264-25-2 HCAPULES
CN	Isosquinoline, 1-{[3,4-dimethoxyphenyl]methyl}-1,2,3,4-tetrahydro-6,7-dimethoxy-2-[4-(2-pyrimidinyl)-1-piperazinyl]acetyl- (9CI) (CA INDEX)

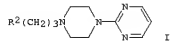
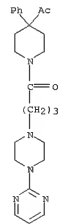
L17 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

AL	ANSWER 2 OF 2	HCAPLUS	COPYRIGHT 2008 ACS ON STN																																																																																																																																																																																																																																						
AN	1989:594790 HCAPLUS																																																																																																																																																																																																																																								
DN	11:1194790																																																																																																																																																																																																																																								
TI	Preparation of N-[3-(heterocyclylcarbonyl- and -sulfonyl)propyl]-N'-2-pyrimidinylpiperazines as antiemetic agents																																																																																																																																																																																																																																								
IN	Welch, William Mekowan																																																																																																																																																																																																																																								
SO	Prizer Inc., USA																																																																																																																																																																																																																																								
IS	EU. Pat. Appl., 26 pp.																																																																																																																																																																																																																																								
CO	EDXKXW																																																																																																																																																																																																																																								
DT	Patent																																																																																																																																																																																																																																								
LA	English																																																																																																																																																																																																																																								
FAN	CNT 1																																																																																																																																																																																																																																								
<table border="1"> <thead> <tr> <th></th><th>PATENT NO.</th><th>KIND</th><th>DATE</th><th>APPLICATION NO.</th><th>DATE</th></tr> </thead> <tbody> <tr> <td>PI</td><td>EP-----314363</td><td>A2</td><td>19890503</td><td>1988EP-0309725</td><td>19881017</td></tr> <tr> <td></td><td>EP-----314363</td><td>A3</td><td>19900711</td><td></td><td></td></tr> <tr> <td></td><td>EP-----314363</td><td>A1</td><td>19900407</td><td></td><td></td></tr> <tr> <td></td><td>R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE</td><td></td><td></td><td></td><td></td></tr> <tr> <td>WO</td><td>-----8903831</td><td>A1</td><td>19890505</td><td>1987WO-0026855</td><td>19871026</td></tr> <tr> <td></td><td>W: FI, HU, NO, SE, US</td><td></td><td></td><td></td><td></td></tr> <tr> <td>HU</td><td>-----58724</td><td>A2</td><td>19920330</td><td>1987HU-000636</td><td>19871026</td></tr> <tr> <td>HU</td><td>-----206109</td><td>B</td><td>19900828</td><td></td><td></td></tr> <tr> <td>IT</td><td>-----479519</td><td>T</td><td>19930415</td><td></td><td></td></tr> <tr> <td>IT</td><td>-----454823</td><td>A3</td><td>19940813</td><td>1988IT-0309725</td><td>19881017</td></tr> <tr> <td>IL</td><td>-----880085</td><td>A</td><td>19930221</td><td>1988IL-0080805</td><td>19881017</td></tr> <tr> <td>JP</td><td>-----01157979</td><td>A</td><td>19906021</td><td>1987JP-0268008</td><td>19881024</td></tr> <tr> <td>JP</td><td>-----43406</td><td>B</td><td>19940608</td><td></td><td></td></tr> <tr> <td>CH</td><td>-----1042438</td><td>A</td><td>19900516</td><td>1988CH-0017386</td><td>19881024</td></tr> <tr> <td>CH</td><td>-----1022246</td><td>B</td><td>19930929</td><td></td><td></td></tr> <tr> <td>CH</td><td>-----7907925</td><td>A</td><td>19900627</td><td>1988ZA-0007925</td><td>19881024</td></tr> <tr> <td>DE</td><td>-----283388</td><td>A5</td><td>19901010</td><td>1988DD-0321032</td><td>19881024</td></tr> <tr> <td>DD</td><td>-----298397</td><td>A5</td><td>19920220</td><td>1988DD-0337989</td><td>19881024</td></tr> <tr> <td>CH</td><td>-----3114881</td><td>C</td><td>19930323</td><td>1988CA-0581081</td><td>19881024</td></tr> <tr> <td>DE</td><td>-----442327</td><td>B</td><td>19890427</td><td>1988AZ-0024327</td><td>19881025</td></tr> <tr> <td>UA</td><td>-----598161</td><td>B2</td><td>19900614</td><td></td><td></td></tr> <tr> <td>DK</td><td>-----8005914</td><td>A</td><td>19890427</td><td>1988DK-0005914</td><td>19881025</td></tr> <tr> <td>DK</td><td>-----71788</td><td>B1</td><td>19970526</td><td></td><td></td></tr> <tr> <td>PL</td><td>-----152117</td><td>B1</td><td>19901130</td><td>1988PL-0275476</td><td>19881025</td></tr> <tr> <td>PL</td><td>-----153184</td><td>B1</td><td>19901329</td><td>1988PL-0279558</td><td>19881025</td></tr> <tr> <td>CH</td><td>-----374441</td><td>B1</td><td>19930141</td><td>1988CH-007088</td><td>19881026</td></tr> <tr> <td>CS</td><td>-----770446</td><td>B2</td><td>19901411</td><td>1989CS-0001351</td><td>19890302</td></tr> <tr> <td>NO</td><td>-----9001652</td><td>A</td><td>19900411</td><td>1989NO-0001652</td><td>19900411</td></tr> <tr> <td>US</td><td>-----459445</td><td>A</td><td>19901219</td><td>1990US-4477835</td><td>19900425</td></tr> <tr> <td>US</td><td>-----4592768</td><td>B</td><td>19900227</td><td>1990PU-4743942</td><td>19900425</td></tr> <tr> <td>FI</td><td>-----94638</td><td>B</td><td>19900630</td><td>1989FI-0002070</td><td>19900425</td></tr> <tr> <td>FI</td><td>-----94638</td><td>C</td><td>19951010</td><td></td><td></td></tr> <tr> <td>PRAI</td><td>1987WO-0026855</td><td>B1</td><td>19871026</td><td></td><td></td></tr> <tr> <td></td><td>1988EP-0309725</td><td>A</td><td>19881017</td><td></td><td></td></tr> <tr> <td></td><td>1988CS-0007088</td><td>A3</td><td>19881026</td><td></td><td></td></tr> <tr> <td></td><td>1988CA-0581081</td><td>A3</td><td>19881024</td><td></td><td></td></tr> <tr> <td>OS</td><td>CRASPECT 11:194790; MARPAT 11:194790</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>							PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	PI	EP-----314363	A2	19890503	1988EP-0309725	19881017		EP-----314363	A3	19900711				EP-----314363	A1	19900407				R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE					WO	-----8903831	A1	19890505	1987WO-0026855	19871026		W: FI, HU, NO, SE, US					HU	-----58724	A2	19920330	1987HU-000636	19871026	HU	-----206109	B	19900828			IT	-----479519	T	19930415			IT	-----454823	A3	19940813	1988IT-0309725	19881017	IL	-----880085	A	19930221	1988IL-0080805	19881017	JP	-----01157979	A	19906021	1987JP-0268008	19881024	JP	-----43406	B	19940608			CH	-----1042438	A	19900516	1988CH-0017386	19881024	CH	-----1022246	B	19930929			CH	-----7907925	A	19900627	1988ZA-0007925	19881024	DE	-----283388	A5	19901010	1988DD-0321032	19881024	DD	-----298397	A5	19920220	1988DD-0337989	19881024	CH	-----3114881	C	19930323	1988CA-0581081	19881024	DE	-----442327	B	19890427	1988AZ-0024327	19881025	UA	-----598161	B2	19900614			DK	-----8005914	A	19890427	1988DK-0005914	19881025	DK	-----71788	B1	19970526			PL	-----152117	B1	19901130	1988PL-0275476	19881025	PL	-----153184	B1	19901329	1988PL-0279558	19881025	CH	-----374441	B1	19930141	1988CH-007088	19881026	CS	-----770446	B2	19901411	1989CS-0001351	19890302	NO	-----9001652	A	19900411	1989NO-0001652	19900411	US	-----459445	A	19901219	1990US-4477835	19900425	US	-----4592768	B	19900227	1990PU-4743942	19900425	FI	-----94638	B	19900630	1989FI-0002070	19900425	FI	-----94638	C	19951010			PRAI	1987WO-0026855	B1	19871026				1988EP-0309725	A	19881017				1988CS-0007088	A3	19881026				1988CA-0581081	A3	19881024			OS	CRASPECT 11:194790; MARPAT 11:194790				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE																																																																																																																																																																																																																																				
PI	EP-----314363	A2	19890503	1988EP-0309725	19881017																																																																																																																																																																																																																																				
	EP-----314363	A3	19900711																																																																																																																																																																																																																																						
	EP-----314363	A1	19900407																																																																																																																																																																																																																																						
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE																																																																																																																																																																																																																																								
WO	-----8903831	A1	19890505	1987WO-0026855	19871026																																																																																																																																																																																																																																				
	W: FI, HU, NO, SE, US																																																																																																																																																																																																																																								
HU	-----58724	A2	19920330	1987HU-000636	19871026																																																																																																																																																																																																																																				
HU	-----206109	B	19900828																																																																																																																																																																																																																																						
IT	-----479519	T	19930415																																																																																																																																																																																																																																						
IT	-----454823	A3	19940813	1988IT-0309725	19881017																																																																																																																																																																																																																																				
IL	-----880085	A	19930221	1988IL-0080805	19881017																																																																																																																																																																																																																																				
JP	-----01157979	A	19906021	1987JP-0268008	19881024																																																																																																																																																																																																																																				
JP	-----43406	B	19940608																																																																																																																																																																																																																																						
CH	-----1042438	A	19900516	1988CH-0017386	19881024																																																																																																																																																																																																																																				
CH	-----1022246	B	19930929																																																																																																																																																																																																																																						
CH	-----7907925	A	19900627	1988ZA-0007925	19881024																																																																																																																																																																																																																																				
DE	-----283388	A5	19901010	1988DD-0321032	19881024																																																																																																																																																																																																																																				
DD	-----298397	A5	19920220	1988DD-0337989	19881024																																																																																																																																																																																																																																				
CH	-----3114881	C	19930323	1988CA-0581081	19881024																																																																																																																																																																																																																																				
DE	-----442327	B	19890427	1988AZ-0024327	19881025																																																																																																																																																																																																																																				
UA	-----598161	B2	19900614																																																																																																																																																																																																																																						
DK	-----8005914	A	19890427	1988DK-0005914	19881025																																																																																																																																																																																																																																				
DK	-----71788	B1	19970526																																																																																																																																																																																																																																						
PL	-----152117	B1	19901130	1988PL-0275476	19881025																																																																																																																																																																																																																																				
PL	-----153184	B1	19901329	1988PL-0279558	19881025																																																																																																																																																																																																																																				
CH	-----374441	B1	19930141	1988CH-007088	19881026																																																																																																																																																																																																																																				
CS	-----770446	B2	19901411	1989CS-0001351	19890302																																																																																																																																																																																																																																				
NO	-----9001652	A	19900411	1989NO-0001652	19900411																																																																																																																																																																																																																																				
US	-----459445	A	19901219	1990US-4477835	19900425																																																																																																																																																																																																																																				
US	-----4592768	B	19900227	1990PU-4743942	19900425																																																																																																																																																																																																																																				
FI	-----94638	B	19900630	1989FI-0002070	19900425																																																																																																																																																																																																																																				
FI	-----94638	C	19951010																																																																																																																																																																																																																																						
PRAI	1987WO-0026855	B1	19871026																																																																																																																																																																																																																																						
	1988EP-0309725	A	19881017																																																																																																																																																																																																																																						
	1988CS-0007088	A3	19881026																																																																																																																																																																																																																																						
	1988CA-0581081	A3	19881024																																																																																																																																																																																																																																						
OS	CRASPECT 11:194790; MARPAT 11:194790																																																																																																																																																																																																																																								

L17 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
phenyl- (9CI) (CA INDEX NAME)



AB The title compds. (I; R2 = RCO, R102; R = 14 specific N-attached heterocyclyl, e.g., pyrrolidino, piperidine, etc.; R1 = 7 specific N-attached heterocyclyl, e.g., pyrrolidino, piperidine, etc.; R3 = 4-(2-pyrrolidinyl)piperazino, etc.) were prepared as antiarrhythmic agents. (4) (R2)CO2Et was refluxed 4 h with H2O-separation with 4-(2-pyrrolidinyl)piperazine, etc. to give 47% (R2) and KI to give 75% I (R2 = CO2Et) which was saponified and the product stirred 3 h at 70° and then overnight with 4,4-dimethylpiperidine in CH2Cl2 containing triethyleneglycolmonochloride, to give 47% (R2 = 4,4-dimethylpiperidinocarbonyl).

12319-56-1P  
-IF  
R1: SPN (Synthetic preparation); PRP (Preparation) (Preparation of, as antiarrhythmic agent)

12319-56-2 NMAPUS  
R1: 4-acetyl-1-[1-oxo-4-[4-(2-pyrrolidinyl)-1-piperazinyl]butyl]-4-

```
=> b uspatall
FILE 'USPATFULL' ENTERED AT 17:03:13 ON 22 JAN 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATOLD' ENTERED AT 17:03:13 ON 22 JAN 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 17:03:13 ON 22 JAN 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

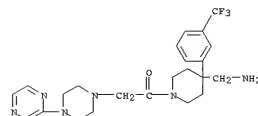
=> d bib abs hitrn fhitstr 1-3 5 121
```



CNA INDEXING IS AVAILABLE FOR THIS PATENT.  
 AT 634661-23-7P, 1-[4-(Aminomethyl)-4-[[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634661-63-5P 634661-69-1P 634662-72-9P  
 634662-91-2P 634663-08-1P 634663-09-3P  
 634663-39-1P 634663-49-3P 634664-60-1P  
 634664-66-7P 634625-03-4P  
 (NGF binding inhibitor; preparation of piperazinylacylpyridines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 AT 634661-08-8P, 2-[4-(2-Pyrazinyl)-1-piperazinyl]-1-[4-[[3-(trifluoromethyl)phenyl]-1-piperidinyl]-1-ethanone monohydrochloride  
 634661-08-8P, 1-[4-(2-Pyrazinyl)-1-piperazinyl]-1-[4-[[3-(trifluoromethyl)phenyl]-1-piperidinyl]-1-[4-(2-Pyrazinyl)-1-piperazinyl]-1-propanone oxalate  
 634661-29-3P, 1-[4-(Aminomethyl)-4-[[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrimidinyl)-1-piperidinyl]-1-ethanone trihydrochloride 634661-52-2P 634661-71-7P  
 634661-73-7P 634661-76-9P 634661-81-7P  
 634661-87-3P 634661-93-1P 634661-99-7P  
 634662-26-3P 634662-31-2P 634662-38-2P  
 634662-49-0P, 2-[4-(4-Pyrimidinyl)-1-piperazinyl]-1-[4-[[3-(trifluoromethyl)phenyl]-3,6-dihydro-1(2H)-pyridinyl]-1-ethanone dioxalate 634662-55-8P 634662-61-6P  
 634662-68-3P 634662-73-6P, 1-[4-(Hydroxymethyl)-4-[[3-(trifluoromethyl)phenyl]-1-piperidinyl]-1-ethanone trihydrochloride 634662-78-2P 634662-79-2P 634662-81-2P 634662-82-2P 634662-83-2P 634662-84-2P 634662-85-2P 634662-86-2P 634662-87-2P 634662-88-2P 634662-89-2P 634662-90-2P 634662-91-2P 634662-92-2P 634662-93-2P 634662-94-2P 634662-95-2P 634662-96-2P 634662-97-2P 634662-98-2P 634662-99-2P 634663-00-2P 634663-01-2P 634663-02-2P 634663-03-2P 634663-04-2P 634663-05-2P 634663-06-2P 634663-07-2P 634663-08-2P 634663-09-2P 634663-10-2P 634663-11-2P 634663-12-2P 634663-13-2P 634663-14-2P 634663-15-2P 634663-16-2P 634663-17-2P 634663-18-2P 634663-19-2P 634663-20-2P 634663-21-2P 634663-22-2P 634663-23-2P 634663-24-2P 634663-25-2P 634663-26-2P 634663-27-2P 634663-28-2P 634663-29-2P 634663-30-2P 634663-31-2P 634663-32-2P 634663-33-2P 634663-34-2P 634663-35-2P 634663-36-2P 634663-37-2P 634663-38-2P 634663-39-2P 634663-40-2P 634663-41-2P 634663-42-2P 634663-43-2P 634663-44-2P 634663-45-2P 634663-46-2P 634663-47-2P 634663-48-2P 634663-49-2P 634663-50-2P 634663-51-2P 634663-52-2P 634663-53-2P 634663-54-2P 634663-55-2P 634663-56-2P 634663-57-2P 634663-58-2P 634663-59-2P 634663-60-2P 634663-61-2P 634663-62-2P 634663-63-2P 634663-64-2P 634663-65-2P 634663-66-2P 634663-67-2P 634663-68-2P 634663-69-2P 634663-70-2P 634663-71-2P 634663-72-2P 634663-73-2P 634663-74-2P 634663-75-2P 634663-76-2P 634663-77-2P 634663-78-2P 634663-79-2P 634663-80-2P 634663-81-2P 634663-82-2P 634663-83-2P 634663-84-2P 634663-85-2P 634663-86-2P 634663-87-2P 634663-88-2P 634663-89-2P 634663-90-2P 634663-91-2P 634663-92-2P 634663-93-2P 634663-94-2P 634663-95-2P 634663-96-2P 634663-97-2P 634663-98-2P 634663-99-2P 634664-00-2P 634664-01-2P 634664-02-2P 634664-03-2P 634664-04-2P 634664-05-2P 634664-06-2P 634664-07-2P 634664-08-2P 634664-09-2P 634664-10-2P 634664-11-2P 634664-12-2P 634664-13-2P 634664-14-2P 634664-15-2P 634664-16-2P 634664-17-2P 634664-18-2P 634664-19-2P 634664-20-2P 634664-21-2P 634664-22-2P 634664-23-2P 634664-24-2P 634664-25-2P 634664-26-2P 634664-27-2P 634664-28-2P 634664-29-2P 634664-30-2P 634664-31-2P 634664-32-2P 634664-33-2P 634664-34-2P 634664-35-2P 634664-36-2P 634664-37-2P 634664-38-2P 634664-39-2P 634664-40-2P 634664-41-2P 634664-42-2P 634664-43-2P 634664-44-2P 634664-45-2P 634664-46-2P 634664-47-2P 634664-48-2P 634664-49-2P 634664-50-2P 634664-51-2P 634664-52-2P 634664-53-2P 634664-54-2P 634664-55-2P 634664-56-2P 634664-57-2P 634664-58-2P 634664-59-2P 634664-60-2P 634664-61-2P 634664-62-2P 634664-63-2P 634664-64-2P 634664-65-2P 634664-66-2P 634664-67-2P 634664-68-2P 634664-69-2P 634664-70-2P 634664-71-2P 634664-72-2P 634664-73-2P 634664-74-2P 634664-75-2P 634664-76-2P 634664-77-2P 634664-78-2P 634664-79-2P 634664-80-2P 634664-81-2P 634664-82-2P 634664-83-2P 634664-84-2P 634664-85-2P 634664-86-2P 634664-87-2P 634664-88-2P 634664-89-2P 634664-90-2P 634664-91-2P 634664-92-2P 634664-93-2P 634664-94-2P 634664-95-2P 634664-96-2P 634664-97-2P 634664-98-2P 634664-99-2P 634665-00-2P 634665-01-2P 634665-02-2P 634665-03-2P 634665-04-2P 634665-05-2P 634665-06-2P 634665-07-2P 634665-08-2P 634665-09-2P 634665-10-2P 634665-11-2P 634665-12-2P 634665-13-2P 634665-14-2P 634665-15-2P 634665-16-2P 634665-17-2P 634665-18-2P 634665-19-2P 634665-20-2P 634665-21-2P 634665-22-2P 634665-23-2P 634665-24-2P 634665-25-2P 634665-26-2P 634665-27-2P 634665-

Cc1cc[nH]1CCNCC2(CCN(C2)C(=O)CCN3CCN(C3)c4cccnc4)Cc5ccc(F)cc5

A21	ANSWER 2 OF 5 USPATFULL ON STN	(Continued)
	(trifluoromethyl)phenyl]-1-piperidinyl)-2-[4-(2-pyrazinyl)-1-piperazinyl]-	
	1-ethanone 634663-87-9P 634663-87-9P	
	-[4-(chlorophenyl)-3,6-dihydro-2(1H)-pyridinyl]-2-[4-(2-pyrazinyl)-1-	
	piperazinyl]-1-ethanone 634663-03-9P, 1-[4-(Aminomethyl)-4-(4-	
	chlorophenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone	
	634663-79-9P 634663-13-3P 634663-13-3P	
	634663-44-8P 634663-55-1P 634663-77-7P	
	634663-93-7P 634663-97-1P 634664-03-2P	
	634664-08-7P, 1-[4-(Methylamino)-4-(3-trifluoromethyl)phenyl]-1-	
	piperidinyl)-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634664-	
	55-1P, 1-[4-(isopropylamino)methyl]-4-(3-chlorophenyl)-1-piperidinyl]-	
	2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634664-20-3P, 1-[4-(N-	
	methylcarbamoyl)-4-(3-trifluoromethyl)phenyl]-1-piperidinyl)-2-[4-(2-	
	pyrazinyl)-1-piperazinyl]-1-ethanone Trihydrochlore 634664-24-7P	
	634663-93-7P 634663-34-3P 634663-44-8P 634664-44-8P, 1-[4-(Amino-	
	methyl)-4-(3-chlorophenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone	
	634663-72-5P, 1-[4-(Aminomethyl)-4-(3-chlorophenyl)-1-piperidinyl]-2-[4-	
	(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634663-72-5P, 1-[4-(Amino-	
	methyl)-4-(3-chlorophenyl)-1-piperidinyl)-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone Dioxalate	
	634670-24-9P 634670-42-1P 6346525-06-9P	
	(NGF binding inhibitor; preparation of piperazinyllacylpiperidines as	
	inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis	
	induced by NGF)	
II	634663-87-9P 634663-72-5P 634663-50-4P	
	1-[2-(4-(2-Pyrazinyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-	
	4-piperidinecarbontirile 634669-57-1P, tert-Buty-	
	[1-[2-(4-(2-pyrazinyl)-1-piperazinyl)-1-oxyacetil]-4-[3-(trifluoromethyl)phenyl]-	
	4-piperidinecarbontirile 634669-57-1P, tert-Butyl [1-[2-(4-(2-pyrazinyl)-1-	
	piperazinyl)-1-piperazinyl]acetyl]-4-piperidinecarbontirile 634669-63-9P,	
	1-[2-[4-(2-Pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-	
	4-piperidinecarbontirile 634669-68-4P 634669-68-4P 634669-74-2P, 4-(Chloromethyl)-2-[4-(2-pyrazinyl)-1-	
	piperazinyl)-1-piperazinyl]acetyl]-4-piperidinecarbontirile 634669-86-6P,	
	tert-butylmethane [1-[2-[4-(2-pyrazinyl)-1-piperazinyl]-1-oxyacetil]-4-[3-	
	(trifluoromethyl)phenyl]-4-piperidinecarbontirile 634669-90-2P, 4-(3-Chloro-	
	phenyl)-1-[2-(4-(2-pyrazinyl)-1-piperazinyl)acetyl]-4-piperidinecarbontirile	
	63469-97-9D, 4-(3-Methoxyphenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]	
	acetyl]-4-piperidinecarbontirile 634669-97-9D (intermediate; preparation of	
	piperazinyllacylpiperidines as inhibitors of the binding of NGF to p75NTR	
	receptor and of the apoptosis induced by NGF)	
II	634669-80-0P, 1-[4-(Aminomethyl)-4-phenyl]-1-piperidinyl)-2-[4-(2-	
	pyrazinyl)-1-piperazinyl]-1-ethanone Trifluoroacetate	
	(preparation of piperazinyllacylpiperidines as inhibitors of the binding of	
	NGF to p75NTR receptor and of the apoptosis induced by NGF)	
II	634669-80-0P, 1-[4-(Aminomethyl)-4-phenyl]-1-piperidinyl)-2-[4-(2-	
	pyrazinyl)-1-piperazinyl]-1-ethanone	
	(intermediate; preparation of piperazinyllacylpiperidines as inhibitors of the	
	binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)	
II	634669-80-0P, 1-[4-(Aminomethyl)-4-phenyl]-1-piperidinyl)-2-[4-(2-	
	pyrazinyl)-1-piperazinyl]-1-ethanone	
	(intermediate; preparation of piperazinyllacylpiperidines as inhibitors of the	
	binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)	
CR	634661-23-7 USPATFULL	
CR	1-[4-(dimethylamino)-4-methyl-2-[4-(4-pyrazinyl)-1-piperazinyl]acetyl]-4-[3-	
	(trifluoromethyl)phenyl]- (9CT) (CA INDEX NAME)	



L21 ANSWER 2 OF 5 USPATFULL on STN (Continued)

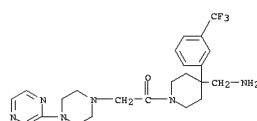
L21 ANSWER 3 OF 5 USPATFULL on STN  
 AN 2005203297 USPATFULL  
 TI Piperazinyllacylpiperidine derivatives, their preparation and therapeutic use thereof  
 IN Bono, Françoise, Toulouse, FRANCE  
 Bosch, Michael, Marsillargues, FRANCE  
 Dos Santos, Victor, Valergues, FRANCE  
 Herbert, Jean-Marc, Tournefeuille, FRANCE  
 Nisato, Dino, Saint-Georges D'Orques, FRANCE  
 Tonnerre, Bernard, Valilhauques, FRANCE  
 Wagnon, Jean, Montpellier, FRANCE  
 PA sanofi-aventis, 75013 Paris, FRANCE (non-U.S. corporation)  
 PI US-20050176722 A1 20050811  
 AI 2003US-000516704 A1 20030605 (10)  
 2003WO-FR0001685 20030605  
 PRAI 2003FR-000007001 20020607  
 DT Utility  
 FS APPLICATION  
 LREP SANOFI-AVENTIS, PATENT DEPARTMENT-MAIL CODE D-303A, ROUTE 202-206, P.O. BOX 6800, BRIDGEWATER, NJ, 08807, US  
 CLMN Number of Claims: 26  
 ECL Exemplary Claim: 1  
 DWMN No Drawings  
 LN.CNT 2901  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB The invention relates to substituted 1-piperazinyllacylpiperidine derivatives of general formula (I) ##STR1## in which: n is 1 or 2; p is 1 or 2;  
 R.sub.1 represents a halogen atom; a trifluoromethyl radical; a (C.sub.1-C.sub.4)alkyl; a (C.sub.1-C.sub.4)alkoxy; a trifluoromethoxy radical;  
 R.sub.2 represents a hydrogen atom or a halogen atom;  
 R.sub.3 represents a hydrogen atom; a group --OR.sub.5; a group --CH.sub.2OR.sub.5; a group --NR.sub.6R.sub.7; a group --NR.sub.8COR.sub.9; a group --NR.sub.8CONR.sub.10R.sub.11; a group --CH.sub.2NR.sub.12R.sub.13; a group --CH.sub.2NR.sub.8CONR.sub.14R.sub.15; a (C.sub.1-C.sub.4)alkoxycarbonyl; a group --CONR.sub.16R.sub.17; or else R.sub.3 constitutes a double bond between the carbon atom to which it is attached and the adjacent carbon atom of the piperidine ring;  
 R.sub.4 represents an aromatic group selected from: ##STR2## the said aromatic groups being unsubstituted or being mono- or disubstituted by a substituent selected independently from a halogen atom; a (C.sub.1-C.sub.4)alkyl; a (C.sub.1-C.sub.4)alkoxy; a trifluoromethyl radical; Preparation process and therapeutic application.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 IT 634461-23-7P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634461-63-5P 634461-69-1P 634462-72-5P  
 634462-91-2P 634463-06-4P 634463-19-7P  
 634463-39-1P 634463-49-3P 634464-60-7P  
 634464-66-7P 634525-03-4P  
 (NGF binding inhibitor; preparation of piperazinyllacylpiperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634461-08-8P, 2-[4-(2-Pyrazinyl)-1-piperazinyl]-1-[4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-1-ethanone monohydrochloride  
 634463-18-0P, 1-[4-Hydroxy-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-3-[4-(2-pyrazinyl)-1-piperazinyl]-1-propanone oxalate  
 634461-29-3P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrimidinyl)-1-piperazinyl]-1-ethanone trihydrochloride 634461-52-2P 634461-57-7P  
 634461-73-7P 634461-76-0P 634461-81-7P  
 634461-87-3P 634461-93-1P 634461-99-7P  
 634462-26-3P 634462-31-1P 634462-38-7P  
 634462-49-0P, 2-[4-(4-Pyrimidinyl)-1-piperazinyl]-1-[4-[3-(trifluoromethyl)phenyl]-3,6-dihydro-1(2H)-pyridinyl]-1-ethanone dioxalate 634462-55-8P 634462-61-6P  
 634462-68-3P 634462-79-6P, 1-[4-(Hydroxymethyl)-4-[3-

L21 ANSWER 3 OF 5 USPATFULL on STN (Continued)

(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634462-83-2P, 1-[4-[(Dimethylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634462-87-6P 634462-98-9P,  
 1-[4-(4-Chlorophenyl)-3,6-dihydro-1(2H)-pyridinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634463-03-9P, 1-[4-(Aminomethyl)-4-(4-chlorophenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone Trifluoroacetate 634463-13-1P 634463-23-3P  
 634463-44-8P 634463-55-1P 634463-77-7P  
 634463-93-7P 634463-97-1P 634464-03-2P  
 634464-08-7P, 1-[4-[(Methylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634464-15-6P, 1-[4-[(Isopropylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634464-20-3P, 1-[4-[(N-Methylisopropylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone Trihydrochloride 634464-24-7P  
 634464-29-2P 634464-34-9P 634464-39-4P  
 634464-44-1P 634464-48-5P, 1-[4-(Aminomethyl)-4-(3-chlorophenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634464-72-5P, 1-[4-(Aminomethyl)-4-(3-methoxyphenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone Dioxalate 634470-24-9P 634470-42-1P 634525-08-9P  
 (NGF binding inhibitor; prepn. of piperazinyllacylpiperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634462-48-3P 634464-71-4P 634469-50-4P,  
 1-[2-[4-(2-Pyrazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinecarboxitrile 634469-57-1P, tert-Butyl [(1-[2-[4-(2-pyrazinyl)-1-piperazinyl]-1-oxomethyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methyl]carbamate 634469-63-9P, 1-[2-[4-(2-Pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinecarboxitrile 634469-68-4P  
 634469-69-5P 634469-74-2P, 4-(4-Chlorophenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarboxitrile 634469-86-6P, tert-Butylmethyl [(1-[2-[4-(2-pyrazinyl)-1-piperazinyl]-1-oxomethyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methyl]carbamate 634469-90-2P, 4-(3-Chlorophenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarboxitrile 634469-97-9P, 4-(3-Methoxyphenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarboxitrile (intermediate; preparation of piperazinyllacylpiperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634469-80-0P, 1-[4-(Aminomethyl)-4-phenyl-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone (intermediate; preparation of piperazinyllacylpiperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634469-81-1P, 1-[4-(Aminomethyl)-4-phenyl-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone Trifluoroacetate (preparation of piperazinyllacylpiperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634461-23-7P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone (NGF binding inhibitor; preparation of piperazinyllacylpiperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 RN 634461-23-7 USPATFULL  
 CN 4-Piperidinemethanamine, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

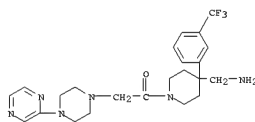
L21 ANSWER 3 OF 5 USPATFULL on STN (Continued)



L21 ANSWER 5 OF 5 USPAT2 on STN  
 AN 200619653 USPAT2  
 TI Piperazinylacetyl piperidine derivatives, their preparation and therapeutic use thereof  
 IN Bono, Fran, cedilla,oise, Toulouse, FRANCE  
 Bosch, Michael, Marsillargues, FRANCE  
 Dos Santos, Victor, Valergues, FRANCE  
 Herbet, Jean-Marc, Tournefeuille, FRANCE  
 Nisato, Dino, Saint-Georges d'Orques, FRANCE  
 Tonnerre, Bernard, Vailhauques, FRANCE  
 Wagnon, Jean, Montpelier, FRANCE  
 PA Sanofi-Aventis, Paris, FRANCE (non-U.S. corporation)  
 PI US-----7294628 B2 20071113  
 WO--2003104226 20031218  
 AI 200308--000516808 20030605 (10)  
 2003WO--FR0001686 20030605  
 20041203 PCT 371 date  
 PRAI 2002FR--000007001 20020607  
 DT Utility  
 FS GRANTED  
 EXNAM Primary Examiner: Wilson, James O.; Assistant Examiner: Leeser, Erich  
 LREP Gupta, Balaram  
 CLAN Number of claims: 10  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN CNT 1971  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB The invention relates to substituted 1-piperazinylacetyl piperidine derivatives of general formula (I)  
 ##STR1## in which:  
 n is 1 or 2;  
 R.sub.1 represents a halogen atom; a trifluoromethyl radical; a (C.sub.1-C.sub.4) alkyl; a (C.sub.1-C.sub.4)alkoxy; a trifluoromethoxy radical;  
 R.sub.2 represents a hydrogen atom or a halogen atom;  
 R.sub.3 represents a hydrogen atom; a group --OR.sub.5; a group --CH.sub.2OR.sub.5; a group --NR.sub.6R.sub.7; a group --NR.sub.8CONR.sub.8; a group --NR.sub.8CONR.sub.10R.sub.11; a group --CH.sub.2NR.sub.12R.sub.13; a group --CH.sub.2NR.sub.8CONR.sub.16R.sub.17; 15; a (C.sub.1-C.sub.4)alkoxycarbonyl; a group --CONR.sub.16R.sub.17; or else R.sub.3 constitutes a double bond between the carbon atom to which it is attached and the adjacent carbon atom of the piperidine ring;  
 R.sub.4 represents the aromatic group 1,3-thiazol-2-yl of formula:  
 ##STR2##  
 Preparation process and therapeutic application.  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 IT 634461-23-7P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634461-43-5P 634461-69-1P 634462-70-5P  
 634462-91-2P 634463-08-4P 634463-19-7P  
 634463-39-1P 634463-49-3P 634464-60-1P  
 634464-66-7P 634525-03-4P  
 (NGF binding inhibitor; preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634461-08-5P, 2-[4-(2-Pyrazinyl)-1-piperazinyl]-1-[4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-1-ethanone monohydrochloride  
 634461-18-0P, 1-[4-Hydroxy-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-3-[4-(2-pyrazinyl)-1-piperazinyl]-1-propanone oxalate  
 634461-29-3P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrimidinyl)-1-piperazinyl]-1-ethanone  
 Trihydrochloride 634461-52-2P 634461-57-7P  
 634461-73-7P 634461-76-0P 634461-81-7P  
 634461-87-3P 634461-93-1P 634461-99-7P  
 634462-26-3P 634462-32-1P 634462-38-7P  
 634462-49-0P, 2-[4-(4-Pyrimidinyl)-1-piperazinyl]-1-[4-[3-

L21 ANSWER 5 OF 5 USPAT2 on STN (Continued)  
 (trifluoromethyl)phenyl]-3,6-dihydro-1(2H)-pyridinyl]-1-ethanone  
 dioxalate 634462-55-8P 634462-61-6P  
 634462-68-3P 634462-79-6P, 1-[4-(Hydroxymethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634462-83-2P, 1-[4-[(Dimethylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634462-87-6P 634462-98-9P  
 1-[4-(4-Chlorophenyl)-3,6-dihydro-1(2H)-pyridinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634463-03-9P, 1-[4-(Aminomethyl)-4-(4-chlorophenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 Trifluoroacetate 634463-13-1P 634463-23-3P  
 634463-44-8P 634463-55-1P 634463-77-7P  
 634463-93-7P 634463-97-1P 634464-03-2P  
 634464-08-7P, 1-[4-[(Methylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634464-15-6P, 1-[4-[(Isopropylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634464-20-3P, 1-[4-[(N-Methylisopropylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 Trihydrochloride 634464-24-7P  
 634464-29-2P 634464-34-9P 634464-39-4P  
 634464-44-1P 634464-48-5P, 1-[4-(Aminomethyl)-4-(3-chlorophenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634464-72-5P, 1-[4-(Aminomethyl)-4-(3-methoxyphenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 Dioxalate 634470-24-9P 634470-42-1P 634525-08-9P  
 (NGF binding inhibitor; prepn. of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634462-48-9P 634464-71-4P 634469-50-4P,  
 1-[2-[4-(2-Pyrazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinecarboxitrile 634469-57-1P, tert-Butyl  
 [1-[2-[4-(2-pyrazinyl)-1-piperazinyl]-1-piperazinyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methyl]carbamate  
 634469-63-9P, 1-[2-[4-(2-pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinecarboxitrile 634469-68-4P  
 634469-69-5P 634469-74-2P, 4-(4-Chlorophenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarboxitrile  
 634469-86-4P, tert-Butylmethyl [1-[2-[4-(2-pyrazinyl)-1-piperazinyl]oxoethyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methyl]carbamate 634469-90-2P, 4-(3-Chlorophenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarboxitrile  
 634469-97-9P, 4-(3-Methoxyphenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarboxitrile  
 (Intermediate; preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634469-80-0P, 1-[4-(Aminomethyl)-4-phenyl-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 (Intermediate; preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634469-81-1P, 1-[4-(Aminomethyl)-4-phenyl-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone Trifluoroacetate  
 (preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 IT 634461-23-7P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 (NGF binding inhibitor; preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)  
 RN 634461-23-7 USPAT2  
 CN 4-Piperidineethanamine, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

L21 ANSWER 5 OF 5 USPAT2 on STN (Continued)



=> d bib abs hitstr 4 121

L21 ANSWER 4 OF 5 USPTFULL on SIN  
AN 91:15162 USPTFULL  
TI Anti-anxiety agents  
IN Welch, Jr., Willard M., Mystic, CT, United States  
PA Pfizer Inc., New York, NY, United States (U.S. corporation)  
PI US-----4994455 19910219  
AI 1990US-000477835 19900421 (7)  
1987WO-US0002855 19871026  
19900421 PCT 371 date  
19900421 PCT 102(e) date

DT Utility  
FS Granted  
EXNAM Primary Examiner: Ford, John M.  
LREP Richardson, Peter C., Ginsburg, Paul H., De Benedictis, Karen  
CLMN Number of Claims: 13  
ECL Exemplary Claims: 1,6  
DRWN No Drawings  
LN,CNT 557

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

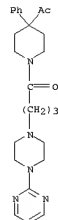
AB Anti-anxiety agents; namely, 1-(heterocyclycarbonyl)-3-[4-(2-pyrimidinyl)-1-piperazinyl]propanes and 1-(heterocyclylsulfonyl)-3-[4-(2-pyrimidinyl)-1-(piperazinyl)]propanes; and methods for their preparation and use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 123319-56-2P  
(preparation of, as antianxiety agent)

RN 123319-56-2 USPTFULL

CN Piperidine, 4-acetyl-1-[3-oxo-4-[4-(2-pyrimidinyl)-1-piperazinyl]butyl]-4-phenyl- (9CI) (CA INDEX NAME)



=&gt; d his

(FILE 'HOME' ENTERED AT 16:49:27 ON 22 JAN 2008)

FILE 'REGISTRY' ENTERED AT 16:49:33 ON 22 JAN 2008

L1 STR  
 L2 22 L1  
 L3 2510 L1 FULL  
 SAV TEM J704C1/A L3  
 L4 STR L1  
 L5 10 L4 SAM SUB=L3  
 L6 161 L4 FULL SUB=L3  
 L7 143 L6 AND 46.150.18/RID  
 L8 140 L7 AND NC2NC2/ES

FILE 'HCAPLUS' ENTERED AT 16:56:19 ON 22 JAN 2008

L9 1 US20050176722 /PN

FILE 'REGISTRY' ENTERED AT 16:56:29 ON 22 JAN 2008

FILE 'HCAPLUS' ENTERED AT 16:56:29 ON 22 JAN 2008

L10 TRA L9 1- RN : 228 TERMS

FILE 'REGISTRY' ENTERED AT 16:56:29 ON 22 JAN 2008

L11 228 SEA L10  
 L12 69 L11 AND L8  
 L13 71 L8 NOT L12

FILE 'HCAPLUS' ENTERED AT 16:56:49 ON 22 JAN 2008

L14 2 L12  
 L15 4 L13  
 SEL HIT RN 3-4

FILE 'REGISTRY' ENTERED AT 16:58:11 ON 22 JAN 2008

L16 2 E1-2

FILE 'HCAPLUS' ENTERED AT 16:59:23 ON 22 JAN 2008

SEL AN 3-4 L15  
 L17 2 E3-6 AND L15  
 L18 2 L15 NOT L17  
 L19 3 L14,L18

FILE 'HCAOLD' ENTERED AT 17:00:37 ON 22 JAN 2008

L20 0 L8

FILE 'USPATFULL, USPATOLD, USPAT2' ENTERED AT 17:00:45 ON 22 JAN 2008

L21 5 L8

=&gt;